

OIPE

RAW SEQUENCE LISTING

4 <110> APPLICANT: Abbott Laboratories

PATENT APPLICATION: US/10/054,534B

DATE: 10/30/2002 TIME: 15:03:05

Input Set : A:\6763usp1.txt

Output Set: N:\CRF4\10302002\J054534B.raw

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Mukerji, Pradip
       6
               Huang, Yung-Sheng
               Das, Tapas
       8
               Thurmond, Jennifer M.
               Pereira, Suzette L.
      11 <120> TITLE OF INVENTION: DESATURASE GENES AND USES THEREOF
      14 <130> FILE REFERENCE: 6763.US.P1
      16 <140> CURRENT APPLICATION NUMBER: 10/054,534B
      17 <141> CURRENT FILING DATE: 2002-01-22
      19 <150> PRIOR APPLICATION NUMBER: US 09/769,863
      20 <151> PRIOR FILING DATE: 2001-01-25
      22 <160> NUMBER OF SEQ ID NOS: 55
      24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
      26 <210> SEQ ID NO: 1
      27 <211> LENGTH: 42
      28 <212> TYPE: DNA
      29 <213> ORGANISM: Artificial Sequence
      31 <220> FEATURE:
      32 <223> OTHER INFORMATION: Primer RO834
W--> 34 <221> NAME/KEY: misc_feature
      35 <222> LOCATION: (3)...(3)
     36 <223> OTHER INFORMATION: b = g or c or t/u at position 3
W--> 38 <221> misc_feature
     39 <222> LOCATION: (6)...(6)
     40 <223> OTHER INFORMATION: y = t/u or c at position 6
W--> 42 <221> misc_feature
     43 <222> LOCATION: (9)...(9)
     44 <223> OTHER INFORMATION: y = t/u or c at position 9
W--> 46 <221> misc_feature
     47 <222> LOCATION: (12)...(12)
     48 <223> OTHER INFORMATION: b = g or c or t/u at position 12
W--> 50 <221> misc_difference
     51 <222> LOCATION: (18)...(18)
     52 < 223 > OTHER INFORMATION: r = g or a at position 18
W--> 54 <221> misc_feature
     55 <222> LOCATION: (24)...(24)
     56 <223> OTHER INFORMATION: b = g or c or t/u at position 24
W--> 58 <221> misc_feature
     59 <222> LOCATION: (30)...(30)
     60 <223> OTHER INFORMATION: y = t/u or c at position 30
W--> 62 <221> misc_feature
     63 <222> LOCATION: (33)...(33)
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DATE: 10/30/2002

PATENT APPLICATION: US/10/054,534B TIME: 15:03:05 Input Set : A:\6763uspl.txt Output Set: N:\CRF4\10302002\J054534B.raw 64 <223> OTHER INFORMATION: y = t/u or c at position 33 W--> 66 <221> misc feature 67 <222> LOCATION: (36)...(36) 68 <223> OTHER INFORMATION: b = g or c or t/u at position 36 W--> 70 <221> misc feature 71 <222> LOCATION: (39)...(39) 72 <223> OTHER INFORMATION: h = a or c or t/u at position 39 W--> 74 <221> misc_feature 75 <222> LOCATION: (42)...(42) 76 <223> OTHER INFORMATION: h = a or c or t/u at position 42 W--> 78 < 400 > 179 gtbtaygayg tbaccgartg ggtbaagcgy cayccbgghg gh 42 81 <210> SEQ ID NO: 2 82 <211> LENGTH: 45 83 <212> TYPE: DNA 84 <213> ORGANISM: Artificial Sequence 86 <220> FEATURE: 87 <223> OTHER INFORMATION: Forward Primer RO835 W--> 89 <221> NAME/KEY: misc_feature 90 <222> LOCATION: (3)...(3) 91 <223> OTHER INFORMATION: h = a or c or t/u at position 3 W--> 93 <221> misc_feature 94 <222> LOCATION: (6)...(6) 95 <223> OTHER INFORMATION: y = t/u or c at position 6 W--> 97 <221> misc_feature 98 <222> LOCATION: (12)...(12) 99 <223> OTHER INFORMATION: y = t/u or c at position 12 W--> 101 <221> misc_feature 102 <222> LOCATION: (27)...(27) 103 <223> OTHER INFORMATION: y = t/u or c at position 27 W--> 105 <221> misc_feature 106 <222> LOCATION: (33)...(33) 107 <223> OTHER INFORMATION: y = tu or c at position 33 W--> 109 <221> misc_feature 110 <222> LOCATION: (39)...(39) 111 <223> OTHER INFORMATION: b = g or c or t/u at position 39 W--> 113 <221> misc_feature 114 <222> LOCATION: (42)...(42) 115 <223> OTHER INFORMATION: y = t/u or c at position 42 W--> 117 <221> misc_feature 118 <222> LOCATION: (45)...(45) 119 <223> OTHER INFORMATION: y = t/u or c at position 45 W--> 121 <400> 2 122 gghgcytccg cyaactggtg gaagcaycag cayaacgtbc aycay 45 124 <210> SEQ ID NO: 3 125 <211> LENGTH: 45 126 <212> TYPE: DNA 127 <213> ORGANISM: Artificial Sequence 129 <220> FEATURE:

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PATENT APPLICATION: US/10/054,534B
                                                                TIME: 15:03:05
                       Input Set : A:\6763uspl.txt
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       130 <223> OTHER INFORMATION: Reverse Primer RO836
  W--> 132 <221> NAME/KEY: misc_feature
       133 <222> LOCATION: (1)...(1)
      134 <223> OTHER INFORMATION: r = g or a at position 1
  W--> 136 <221> misc_feature
       137 <222> LOCATION: (4)...(4)
      138 <223> OTHER INFORMATION: r = g or a at position 4
 W--> 140 <221> misc_feature
      141 <222> LOCATION: (7)...(7)
      142 <223> OTHER INFORMATION: v = a or g or c at position 7
 W--> 144 <221> misc_feature
      145 <222> LOCATION: (13)...(13)
      146 <223> OTHER INFORMATION: r = g or a at position 13
 W--> 148 <221> misc_feature
      149 <222> LOCATION: (19)...(19)
      150 <223> OTHER INFORMATION: r = g or a at position 19
 W--> 152 <221> misc_feature
      153 <222> LOCATION: (34)...(34)
      154 <223> OTHER INFORMATION: r = g or a at position 34
 W--> 156 <221> misc_feature
      157 <222> LOCATION: (40)...(40)
      158 <223> OTHER INFORMATION: r = g or a at position 40
 W--> 160 <221> misc_feature
      161 <222> LOCATION: (43)...(43)
      162 <223> OTHER INFORMATION: d = a or g or t/u at position 43
 W--> 164 <400> 3
      165 rtgrtgvacg ttrtgctgrt gcttccacca gttrgcggar gcdcc
                                                                             45
      167 <210> SEQ ID NO: 4
      168 <211> LENGTH: 36
     169 <212> TYPE: DNA
     170 <213> ORGANISM: Artificial Sequence
     172 <220> FEATURE:
     173 <223> OTHER INFORMATION: Reverse Primer RO838
W--> 175 <221> NAME/KEY: misc_feature
     176 <222> LOCATION: (6)...(6)
     177 <223> OTHER INFORMATION: r = g or a at position 6
W--> 179 <221> misc_feature
     180 <222> LOCATION: (12)...(12)
     181 <223> OTHER INFORMATION: r = g or a at position 12
W--> 183 <221> misc_feature
     184 <222> LOCATION: (15)...(15)
     185 <223> OTHER INFORMATION: y = t/u or c at position 15
W--> 187 <221> misc_feature
     188 <222> LOCATION: (18)...(18)
     189 <223> OTHER INFORMATION: r = g or a at position 18
W--> 191 <221> misc_feature
     192 <222> LOCATION: (21)...(21)
     193 <223> OTHER INFORMATION: r = g or a at position 21
W--> 195 <221> misc_feature
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DATE: 10/30/2002
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                        Input Set : A:\6763uspl.txt
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       196 <222> LOCATION: (24)...(24)
       197 <223> OTHER INFORMATION: s = g or c at position 24
  W--> 199 <221> misc_feature
       200 <222> LOCATION: (27)...(27)
       201 <223> OTHER INFORMATION: r = g or a at position 27
  W--> 203 <221> misc_feature
       204 <222> LOCATION: (30)...(30)
       205 <223> OTHER INFORMATION: v = a or g or c at position 30
  W--> 207 <400> 4
       208 ttgatrgtct arctygtrgt rgasaarggv tggtac
       210 <210> SEQ ID NO: 5
                                                                              36
       211 <211> LENGTH: 24
       212 <212> TYPE: DNA
       213 <213> ORGANISM: Artificial Sequence
       215 <220> FEATURE:
      216 <223> OTHER INFORMATION: Primer RO753
 W--> 218 <221> NAME/KEY: misc_feature
       219 <222> LOCATION: (10)...(10)
      220 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown, or other at
                position 10
 W--> 223 <221> misc_feature
      224 <222> LOCATION: (13)...(13)
      225 <223> OTHER INFORMATION: r = g or a at position 13
 W--> 227 <221> misc_feature
      228 <222> LOCATION: (16)...(16)
      229 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown, or other at
                position 16
 W--> 232 <221> misc_feature
      233 <222> LOCATION: (18)...(19)
      234 <223> OTHER INFORMATION: r = g or a at positions 18-19
 W--> 236 <221> misc_feature
      237 <222> LOCATION: (22)...(22)
      238 <223> OTHER INFORMATION: r = g or a at position 22
W--> 240 <400> 5
W--> 241 catcatcatn ggraanarrt grtg
     243 <210> SEQ ID NO: 6
                                                                             24
     244 <211> LENGTH: 30
     245 <212> TYPE: DNA
     246 <213> ORGANISM: Artificial Sequence
     248 <220> FEATURE:
     249 <223> OTHER INFORMATION: Primer RO754
W--> 251 <221> NAME/KEY: misc_feature
     252 <222> LOCATION: (15)...(15)
     253 <223> OTHER INFORMATION: y = t/u or c at position 15
W--> 255 <221> misc_feature
     256 <222> LOCATION: (18)...(18)
     257 <223> OTHER INFORMATION: y = t/u or c at position 18
W--> 259 <221> misc_feature
     260 <222> LOCATION: (21)...(21)
```

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/054,534B

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Input Set : A:\6763usp1.txt

Output Set: N:\CRF4\10302002\J054534B.raw

261 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown, or other at 262 position 21 W--> 264 <221> misc_feature 265 <222> LOCATION: (24)...(24) 266 <223> OTHER INFORMATION: y = t/u or c at position 24 W--> 268 <221> misc_feature 269 <222> LOCATION: (27)...(27) 270 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown, or other at position 27 W--> 273 <221> misc_feature 274 <222> LOCATION: (30)...(30) 275 <223> OTHER INFORMATION: y = t/u or c at position 30 W--> 277 <400> 6 W--> 278 ctactactac tacaycayac ntayacnaay 30 280 <210> SEO ID NO: 7 281 <211> LENGTH: 29 282 <212> TYPE: DNA 283 <213> ORGANISM: Artificial Sequence 285 <220> FEATURE: 286 <223> OTHER INFORMATION: Primer RO923 288 <400> SEQUENCE: 7 289 cggtgcagtg gtggaagaac aagcacaac 29 291 <210> SEQ ID NO: 8 292 <211> LENGTH: 30 293 <212> TYPE: DNA 294 <213> ORGANISM: Artificial Sequence 296 <220> FEATURE: 297 <223> OTHER INFORMATION: Primer RO899 299 <400> SEQUENCE: 8 300 agcggataac aatttcacac aggaaacagc 30 302 <210> SEQ ID NO: 9 303 <211> LENGTH: 30 304 <212> TYPE: DNA 305 <213> ORGANISM: Artificial Sequence 307 <220> FEATURE: 308 <223> OTHER INFORMATION: Primer RO939 310 <400> SEQUENCE: 9 311 cgtagtactg ctcgaggagc ttgagcgccg 30 313 <210> SEQ ID NO: 10 314 <211> LENGTH: 31 315 <212> TYPE: DNA 316 <213> ORGANISM: Artificial Sequence 318 <220> FEATURE: 319 <223> OTHER INFORMATION: Primer RO898 321 <400> SEQUENCE: 10 322 cccagtcacg acgttgtaaa acgacggcca g 31 324 <210> SEQ ID NO: 11 325 <211> LENGTH: 45 326 <212> TYPE: DNA

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/054,534B

DATE: 10/30/2002 TIME: 15:03:06

Input Set : A:\6763usp1.txt

Output Set: N:\CRF4\10302002\J054534B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 10,16 Seq#:6; N Pos. 21,27

VERIFICATION SUMMARY

DATE: 10/30/2002 TIME: 15:03:06 PATENT APPLICATION: US/10/054,534B

Input Set : A:\6763uspl.txt

Output Set: N:\CRF4\10302002\J054534B.raw

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L:34 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:38 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:42 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:46~M:258~W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:50 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:54~M:258~W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:58 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:62~M:258~W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:66 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:70~M:258~W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:74 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:78 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:89 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:93 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:97 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:101 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:105 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:109 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:113 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:117 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:121 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:132 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:136 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:140 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:148 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:152 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:156 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:164 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:175 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:179 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:183 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:187 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:191 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:195 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:199 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:203 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:207 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:218 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:223 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:227 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:232 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:236 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:240 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:251 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:255 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
```

VERIFICATION SUMMARY

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PATENT APPLICATION: US/10/054,534B

DATE: 10/30/2002
TIME: 15:03:06

Input Set : A:\6763uspl.txt

Output Set: N:\CRF4\10302002\J054534B.raw

L:259 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:264 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:268 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:273 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:277 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:1070 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1074 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36
L:1082 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36
L:1086 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36
L:1086 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36